



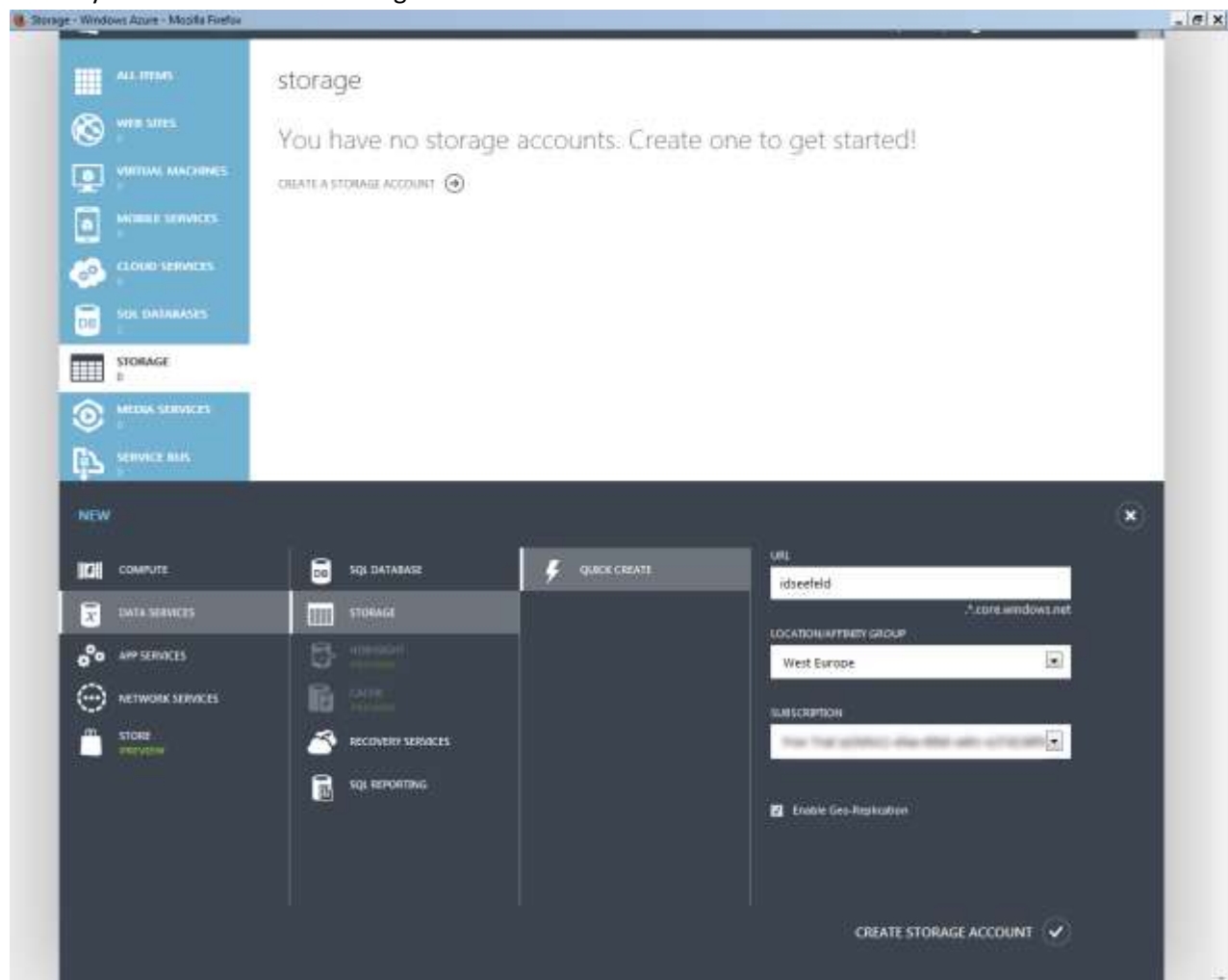
Azure Blob Storage Provider Documentation (Version 1.0.10)

What is the Azure Blob Storage Provider for Umbraco?

The Azure Blob Storage Provider replaces Umbraco's default provider for media files. **Full trust is required!**

The following steps show how to setup the ABSP:

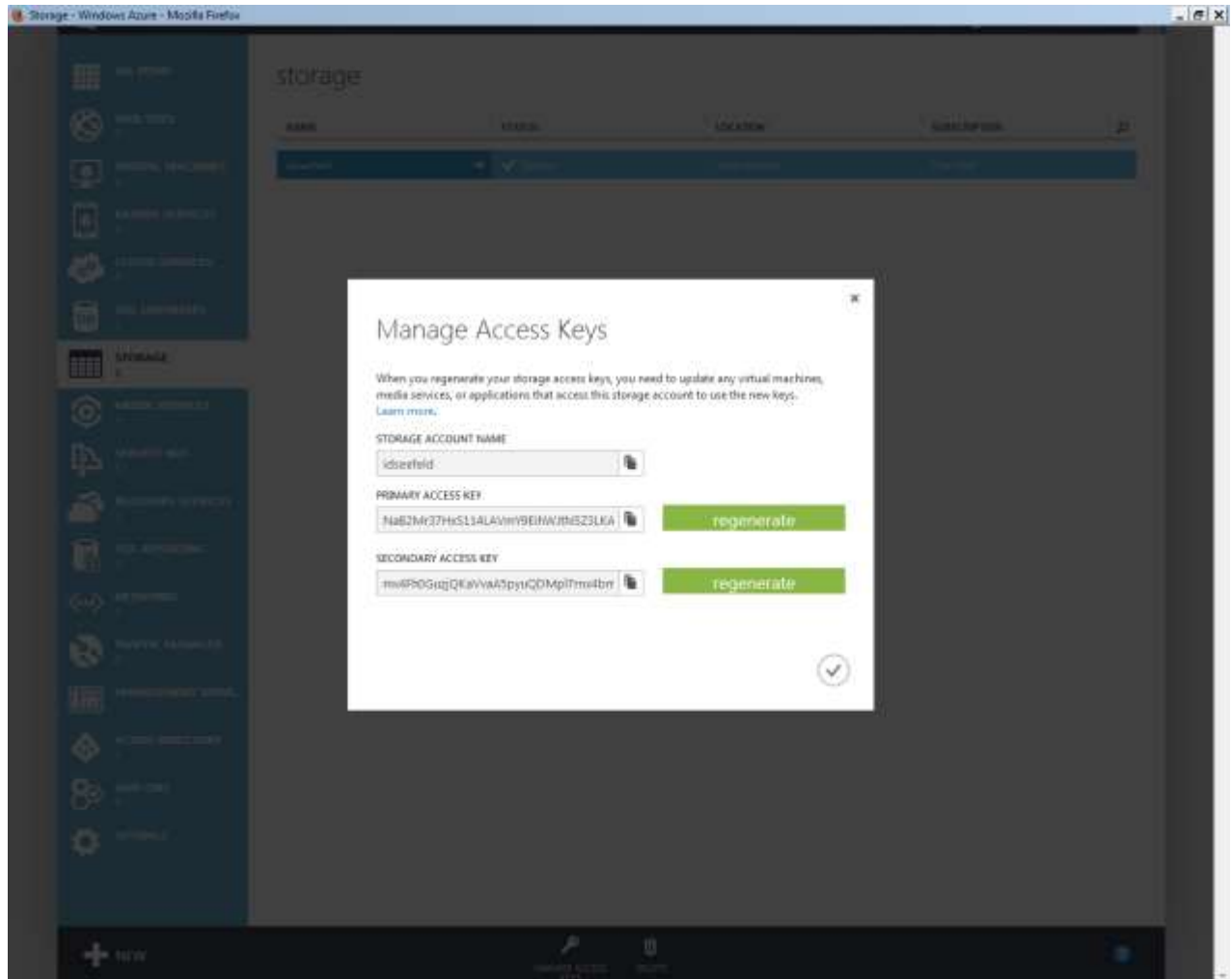
1. At first you create the Azure storage.



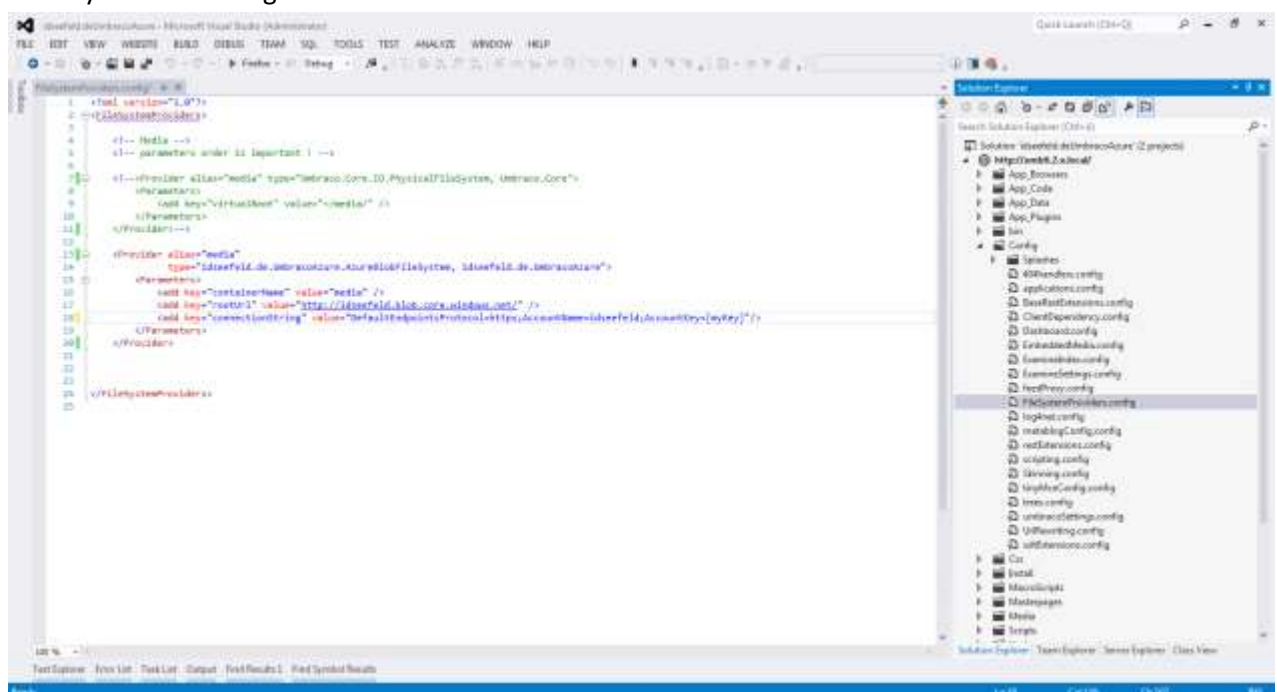
The Result



- Copy one of the two generated keys.



- Open file `~/Config/FileSystemProviders.config` of your Umbraco installation and paste your account name and key into the configuration:



```

<?xml version="1.0"?>
<FileSystemProviders>
  <!-- Media -->
  <!-- parameters order is important ! -->

  <Provider alias="media"
            type="idseefeld.de.UmbracoAzure.AzureBlobFileSystem,
idseefeld.de.UmbracoAzure">
    <Parameters>
      <add key="containerName" value="media" />
      <add key="rootUrl" value="http://[myAccountName].blob.core.windows.net/" />
      <add key="connectionString"
value="DefaultEndpointsProtocol=https;AccountName=[myAccountName];AccountKey=[myAccountKey]"/>
      <add key="mimetypes" value="" />
      <add key="cacheControl" value="*|public, max-age=31536000;js|no-store" />
    </Parameters>
  </Provider>
</FileSystemProviders>

```

You can configure Cache-control for several file types. Add your settings to the parameters with key="cacheControl". Start with the wildcard (*) setting and separate the file type extension by | (pipe) from the cache-control settings. Separate each **file type | cache-control** group by ; (semicolon).

Allowed cache-controls are:

public *or* public, max-age=12345678 (*or simply*: max-age=12345678)

private *or* private, max-age=12345678

no-store

no-cache

The max-age value is defined in seconds - i.e. 31536000 means one year (60 x 60 x 24 x 365).

For backward compatibility you have to add mimetypes and cacheControl keys. However, you can leave the value of mimetypes blank.

Since version 1.0.10.4 you can add a setting to the appSettings section of your Umbraco installation's web.config:

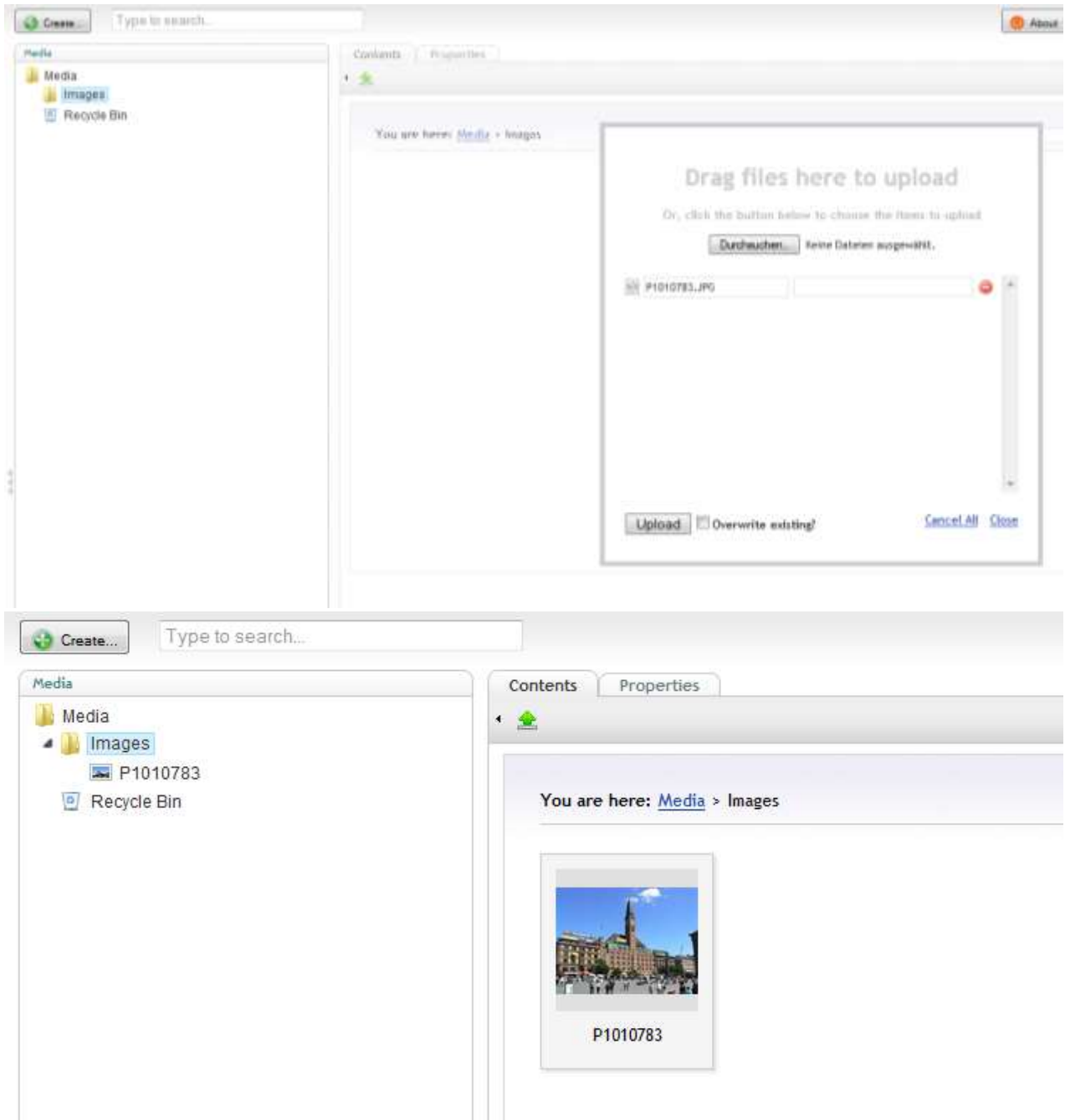
```

<add key="AzureBlobFileSystem.UseWASStorageEmulator" value="true" />

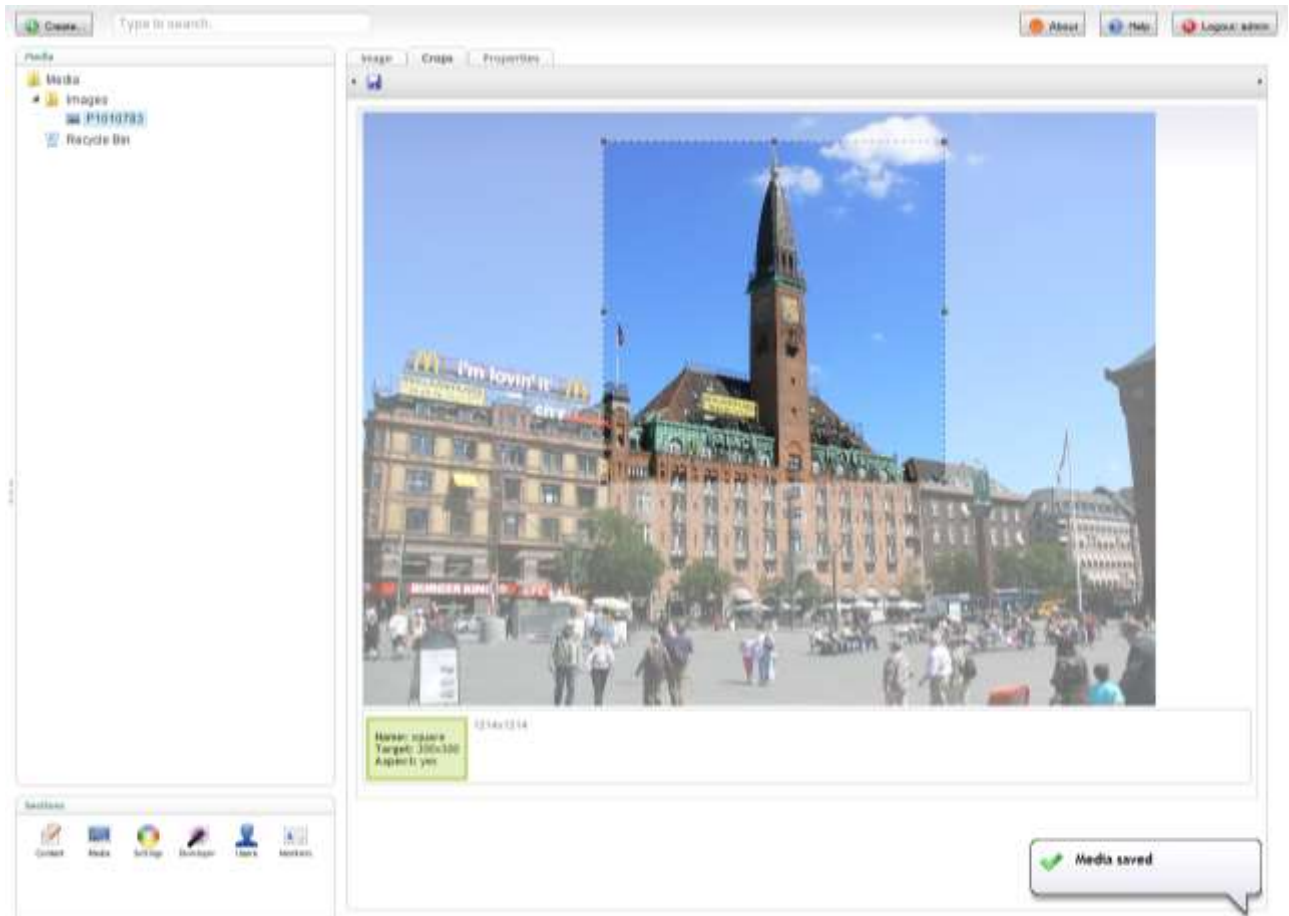
```

When AzureBlobFileSystem.UseWASStorageEmulator is true, rootUrl and connectionString are set to the Windows Azure Development Storage Emulator. The emulator is part of the Windows Azure SDK.

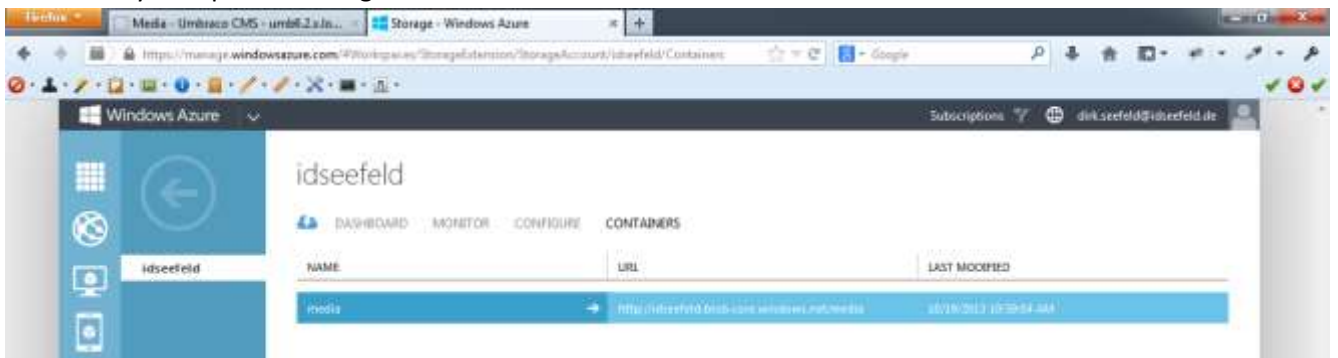
4. Restart the web server (e. g. touch web.config) and upload an image.



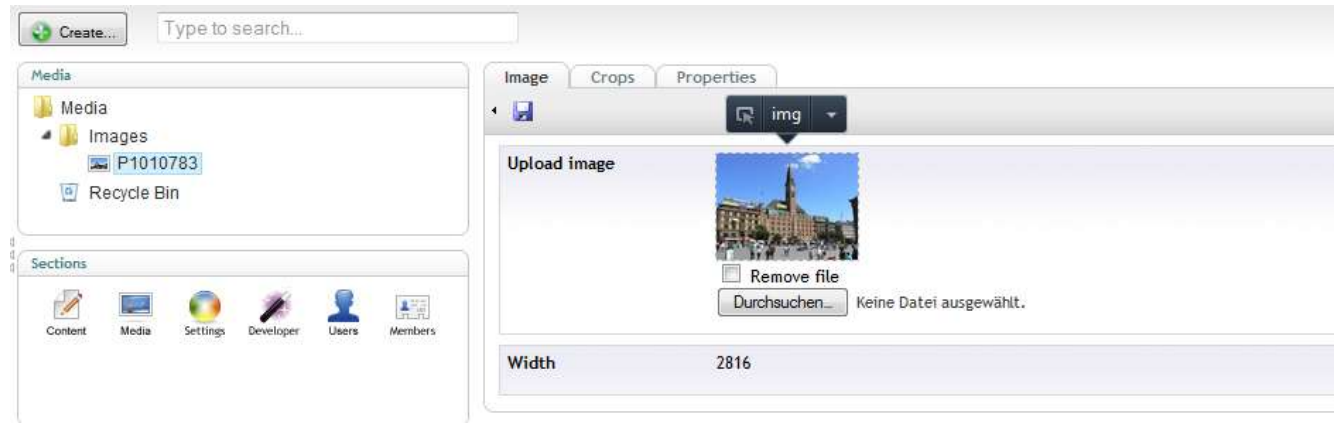
In my example I have previously installed the [Image Cropper Extended](#) and defined crops for media and content (for details see Image Cropper Extended [documentation](#)). *Just to show that it works!*



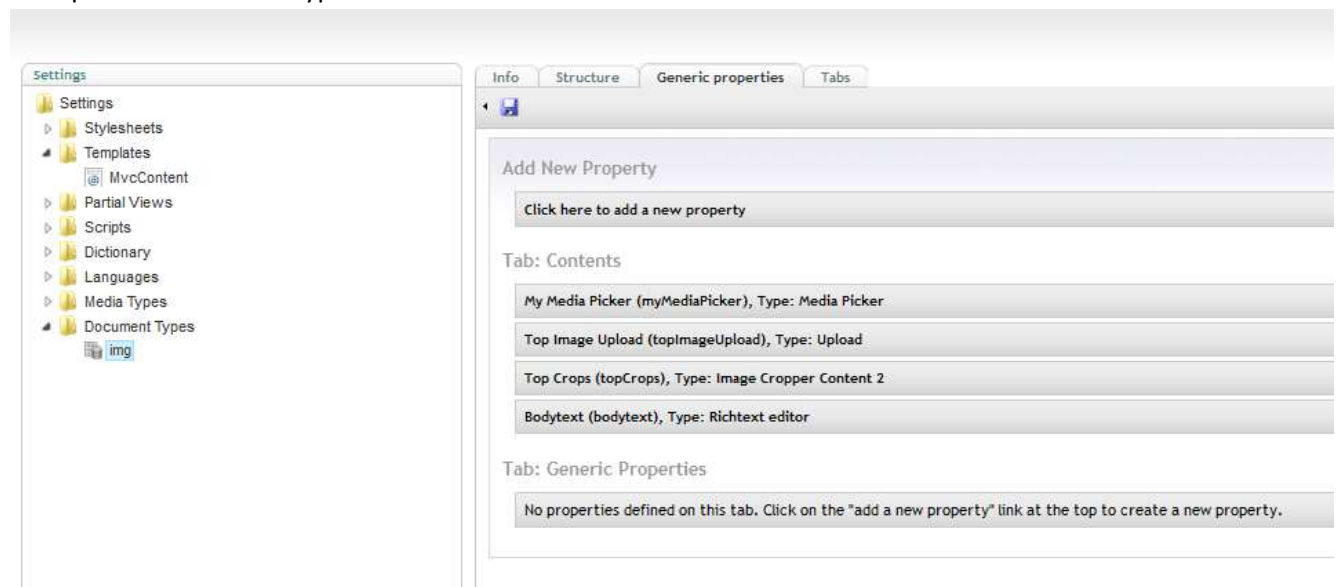
5. Check that your uploaded images are in the cloud ...



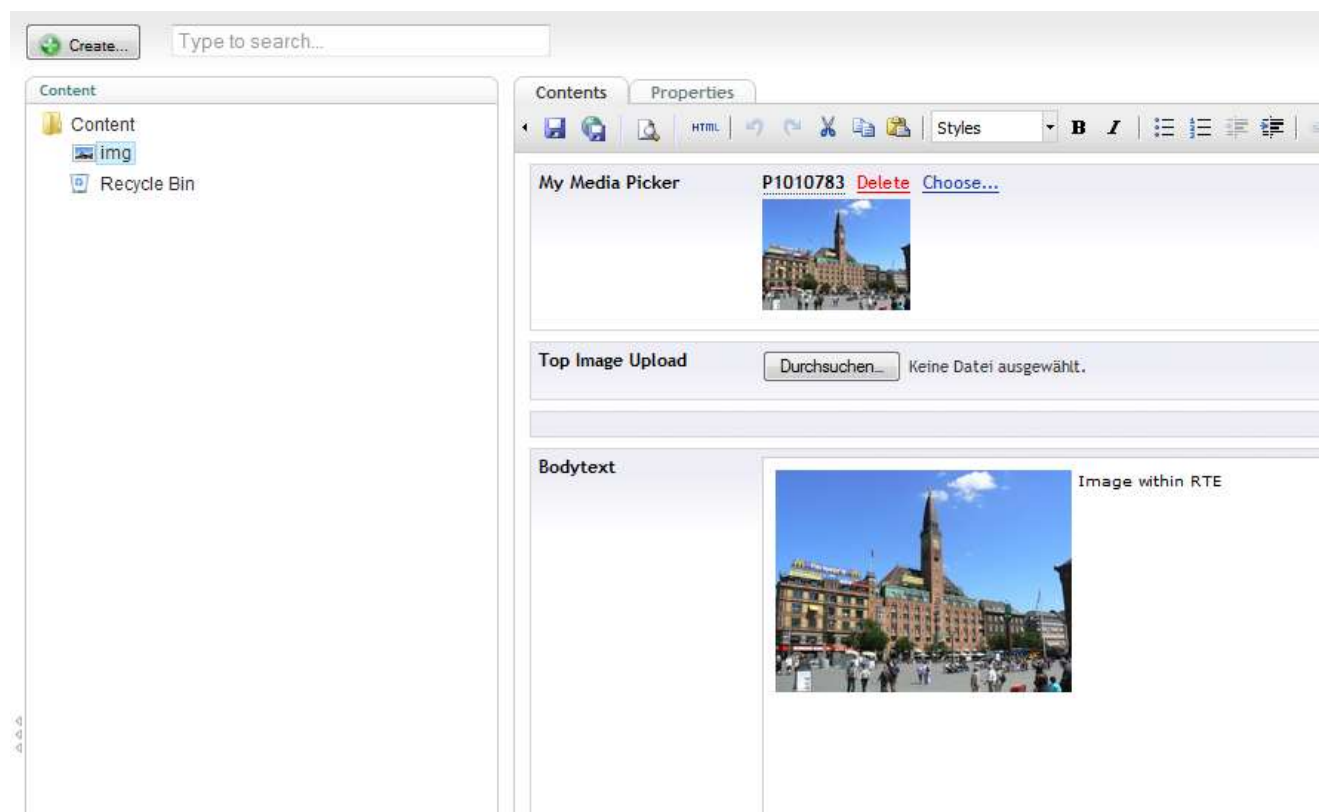
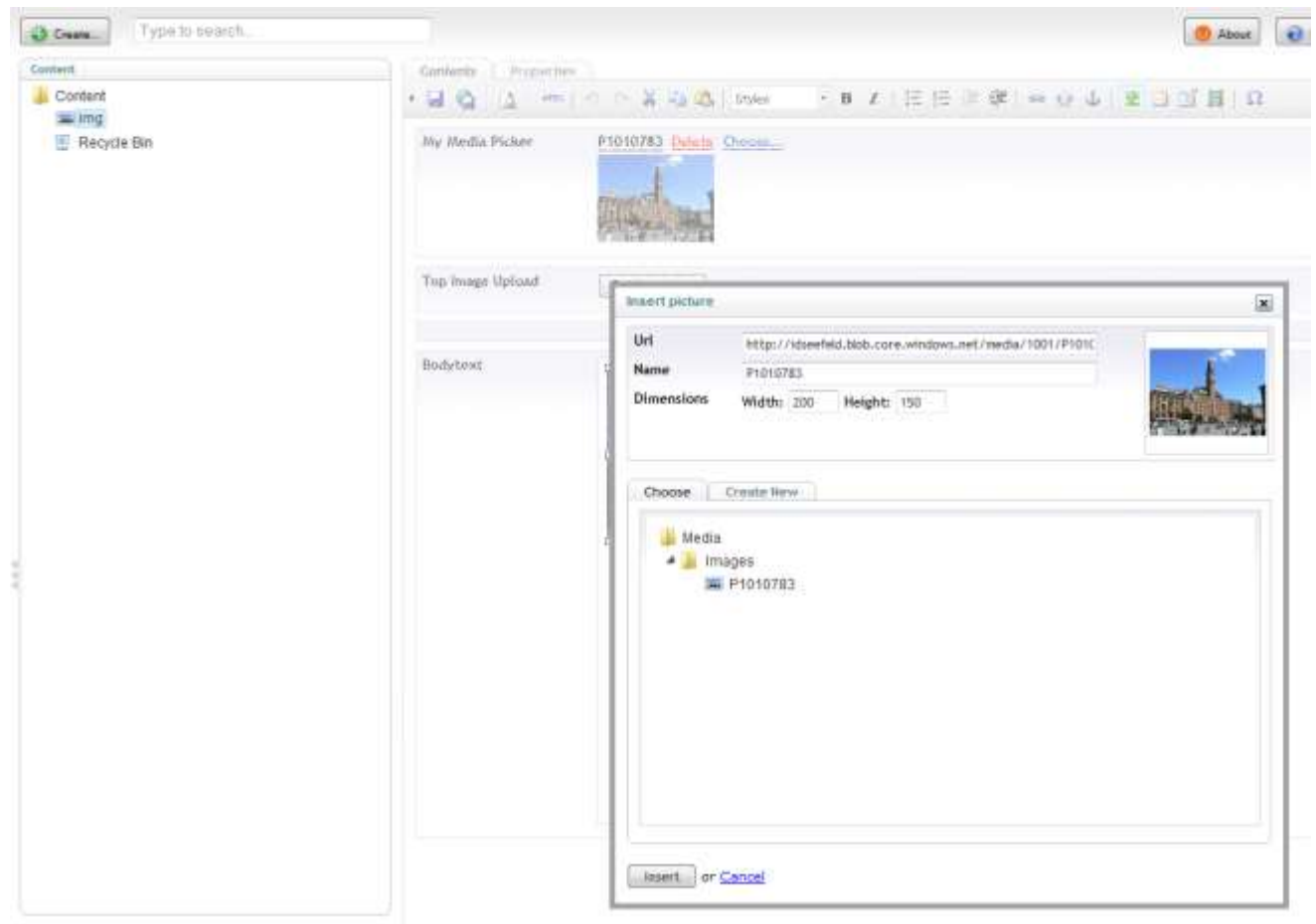
6. ... or explore the html.



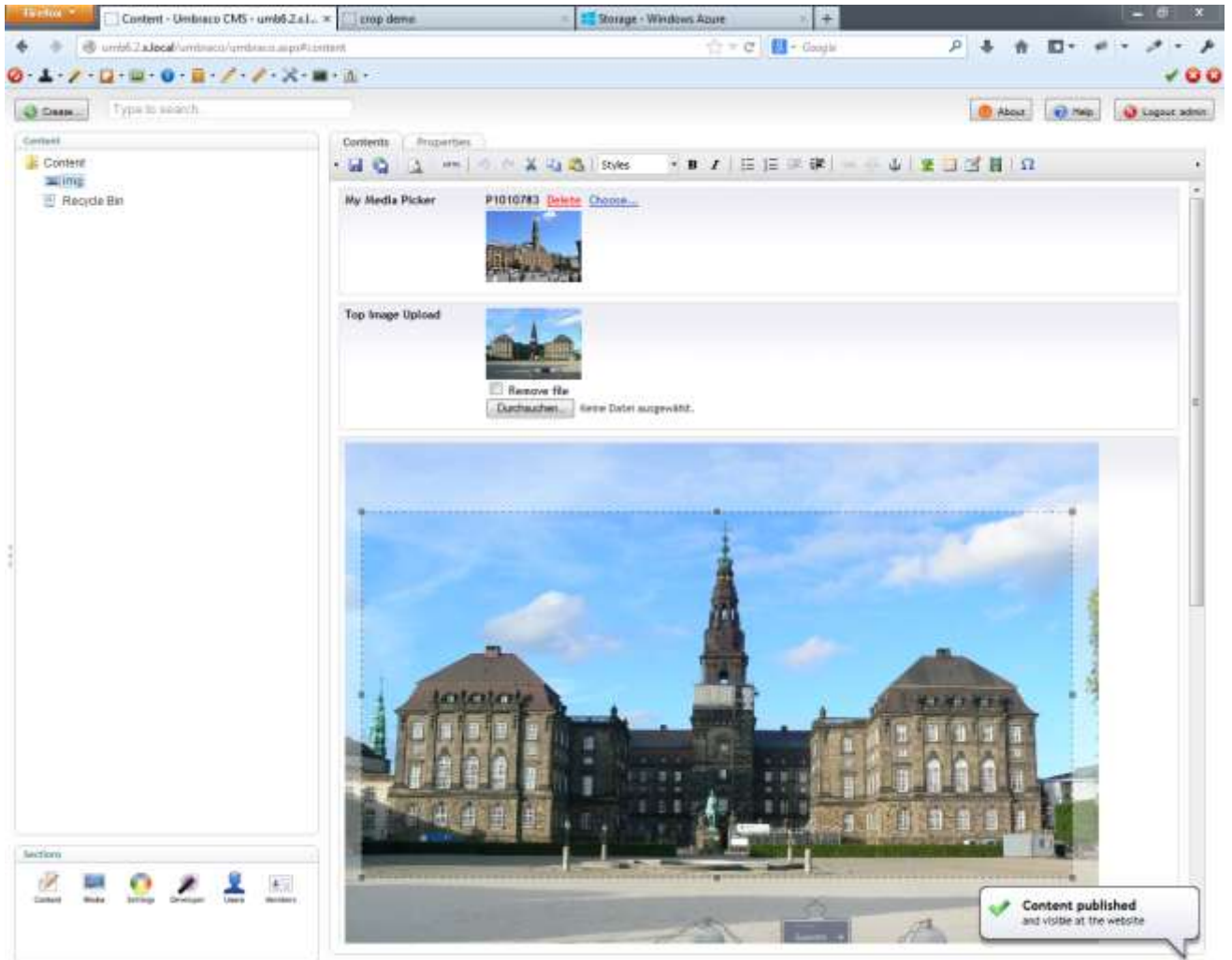
7. Example of a document type



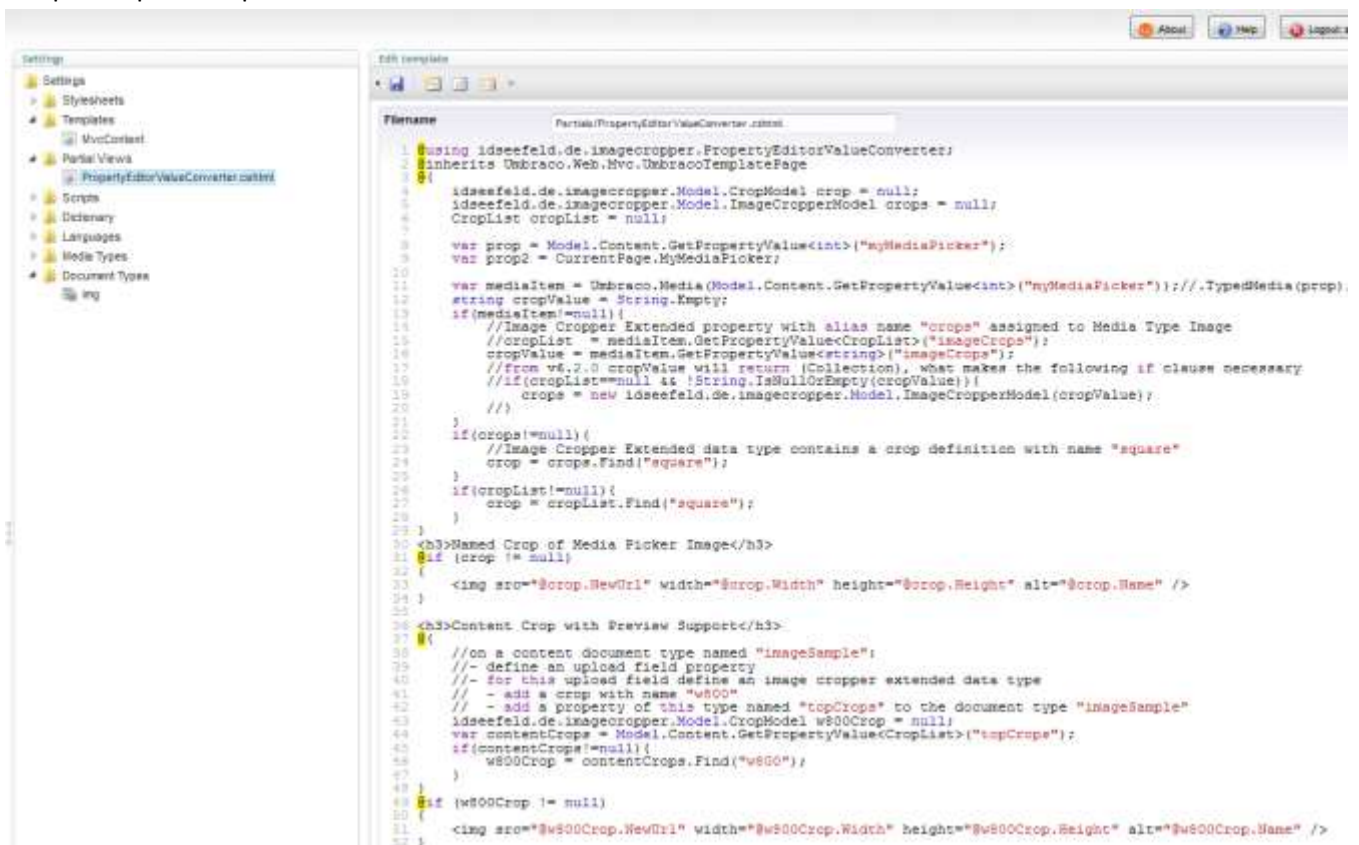
8. Create a node of the *img* document type and choose an image with the media Picker and insert one into the rich text editor.



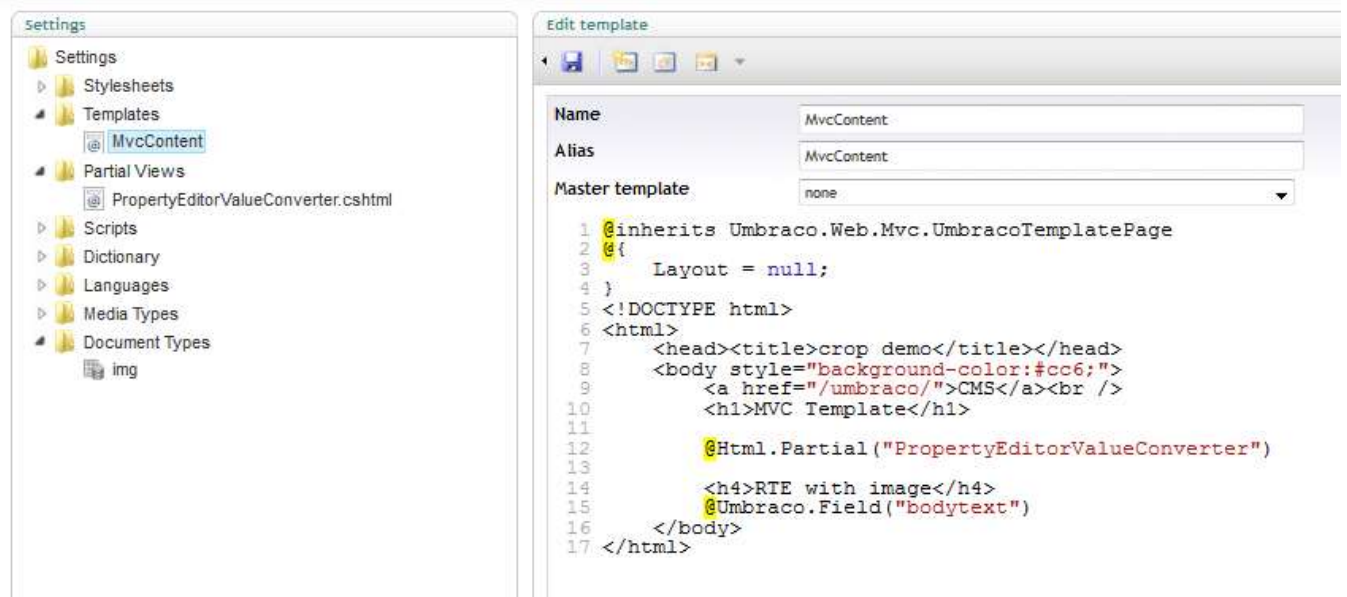
9. Upload another image with the upload, adjust the associated cropper and save & publish the node.



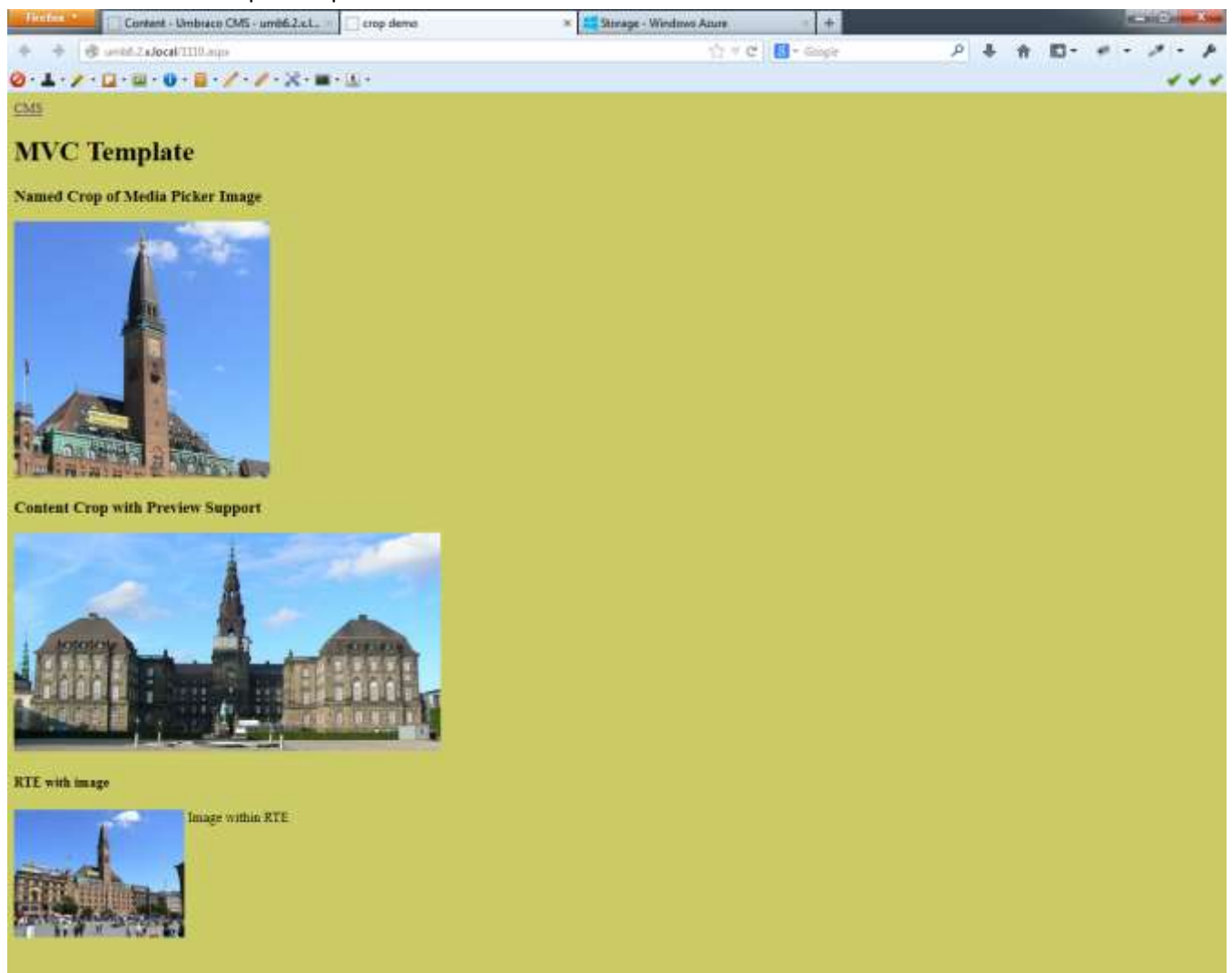
10. Sample scripts for a partial view ...



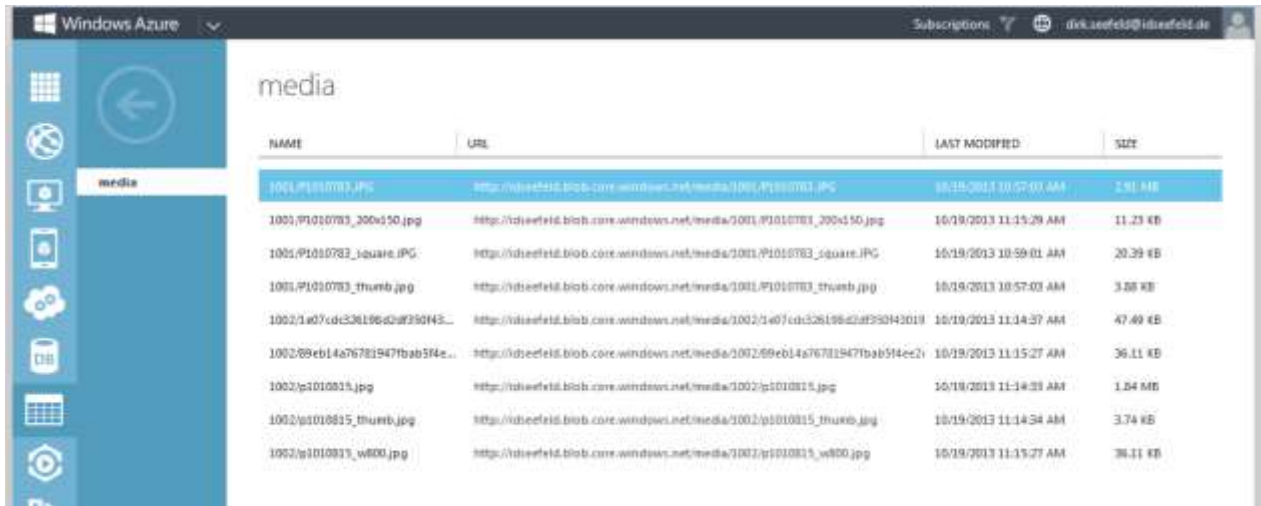
... and one for the MVC template, available in the documentation section of the [package download page](#).



11. Result view of the sample template.



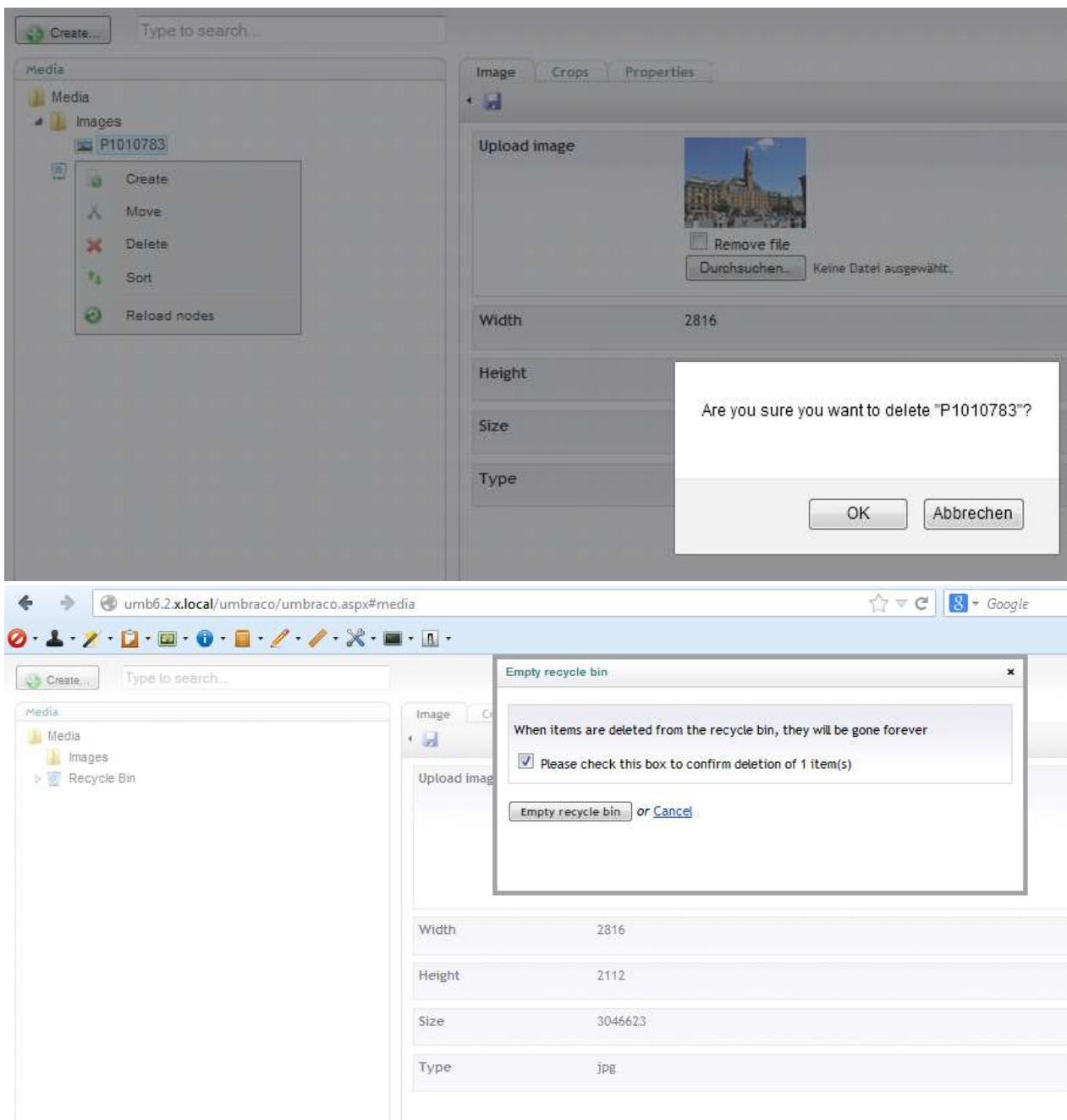
12. List of uploaded files.



The screenshot shows the Windows Azure portal interface. On the left is a navigation pane with icons for various services. The main area is titled 'media' and displays a table of uploaded files. The table has four columns: NAME, URL, LAST MODIFIED, and SIZE. The first row is highlighted in blue.

NAME	URL	LAST MODIFIED	SIZE
1001/P1010783.JPG	http://ideefeld.blob.core.windows.net/media/1001/P1010783.JPG	10/19/2013 10:57:01 AM	2.91 MB
1001/P1010783_200x150.jpg	http://ideefeld.blob.core.windows.net/media/1001/P1010783_200x150.jpg	10/19/2013 11:15:29 AM	11.23 KB
1001/P1010783_square.JPG	http://ideefeld.blob.core.windows.net/media/1001/P1010783_square.JPG	10/19/2013 10:59:01 AM	20.39 KB
1001/P1010783_thumb.jpg	http://ideefeld.blob.core.windows.net/media/1001/P1010783_thumb.jpg	10/19/2013 10:57:03 AM	3.06 KB
1002/1a07cdc326196d2af35043019	http://ideefeld.blob.core.windows.net/media/1002/1a07cdc326196d2af35043019	10/19/2013 11:14:37 AM	47.49 KB
1002/89eb14a76781947fbab514ec2i	http://ideefeld.blob.core.windows.net/media/1002/89eb14a76781947fbab514ec2i	10/19/2013 11:15:27 AM	36.11 KB
1002/p1010815.jpg	http://ideefeld.blob.core.windows.net/media/1002/p1010815.jpg	10/19/2013 11:14:33 AM	1.84 MB
1002/p1010815_thumb.jpg	http://ideefeld.blob.core.windows.net/media/1002/p1010815_thumb.jpg	10/19/2013 11:14:34 AM	3.74 KB
1002/p1010815_w800.jpg	http://ideefeld.blob.core.windows.net/media/1002/p1010815_w800.jpg	10/19/2013 11:15:27 AM	36.11 KB

13. Delete a media item.



The screenshot shows the Umbraco CMS interface. On the left is a navigation pane with icons for various services. The main area is titled 'media' and displays a list of uploaded files. The first row is highlighted in blue. A context menu is open over the first row, showing options: Create, Move, Delete, Sort, and Reload nodes. The 'Delete' option is selected. A confirmation dialog box is displayed in the center of the screen, asking 'Are you sure you want to delete "P1010783"?'. The dialog has 'OK' and 'Abbrechen' buttons. Below the dialog, the 'Empty recycle bin' dialog is visible, showing a warning that items deleted from the recycle bin will be gone forever. The 'Empty recycle bin' button is selected.

Are you sure you want to delete "P1010783"?

OK Abbrechen

Empty recycle bin

When items are deleted from the recycle bin, they will be gone forever

☒ Please check this box to confirm deletion of 1 item(s)

Empty recycle bin or Cancel

Width 2816

Height 2112

Size 3046623

Type jpg

At the time of this writing (previous to version 6.2.0) there is an issue with deleting a single media item in the recycle bin.

But you can empty the whole recycle bin and all trashed items will be deleted in Azure storage.



An [issue report](#) with a possible solution is created, but I don't know whether it will make it into the release version 6.2.0 - your vote might help.

14. Bug Fix

Until version 1.0.5 there was a bug that lead to doubled directory names (actually numbers starting with 1001) for different uploads. In case of deleting an item this actually deletes the whole directory, as this is assumed unique for only one item and siblings like thumbnails for images.

Version 1.0.8 writes a control file to the repository with the number of the latest existing media directory in case you have data from a previous version. Otherwise, it contains 0. This prevents "old" incorrectly named blobs from deletion. Of course, this is only a work-a-round. However, it is the best solution I could figure out so far.